

Atty Dkt. No.: CLON-015
USSN: 09/440,829

In the claims:

Claims 1-46 (Cancelled).

47. (Currently Amended) An array comprising at least one pattern of different probe oligonucleotide spots covalently attached to the surface of a solid support, wherein the spots on said array have a density of at least $10/\text{cm}^2$ and each probe oligonucleotide spot of said pattern comprises an oligonucleotide probe composition made up of long oligonucleotide probes that range in length from 60 to about 100 nucleotides and have less than 50% homology with oligonucleotide ~~nucleotide~~ probes of any other different probe composition of said array.

48. (Previously Presented) The array according to Claim 47, wherein two or more different target nucleic acids hybridize to different probe oligonucleotide spots in said pattern.

49. (Previously Presented) The array according to Claim 48, wherein each probe oligonucleotide spot in said pattern hybridizes to a different target nucleic acid.

50. (Previously Presented) The array according to Claim 47, wherein each of said long oligonucleotide probes is cross-linked to the surface of said support.

51. (Previously Presented) The array according to Claim 47, wherein the spots on said array do not exceed a density of $1000/\text{cm}^2$.

52. (Previously Presented) The array according to Claim 51, wherein the spots on said array do not exceed a density of $400/\text{cm}^2$.

53. (Previously Presented) The array according to Claim 47, wherein the spots

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on said array range from about 50 to 50,000 in number.

54. (Previously Presented) The array according to Claim 47, wherein the spots on said array range from about 50 to 10,000 in number.